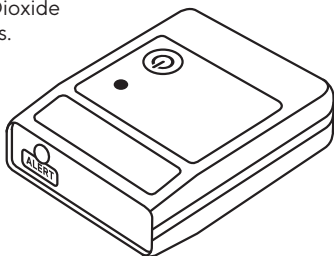


Welcome to your new Personal Air Quality Alert level warning device which is one of the family of Personal Alert devices manufactured in the UK by Pamby Electronics Ltd. The other devices relate to Noise Level, Noise Dose and Nitrogen Dioxide /Ozone (NO₂/O₃ - Outdoor) measurements.

Key Features

- Self-contained unit
- Simple to use
- Long battery life
- Optical and Vibration alert
- Photoacoustic sensor technology PASens®
- Automatic self-calibration



What is it?

Your device is a small battery powered unit that measures the INDOOR levels of Carbon Dioxide (CO₂) in real time and indicates whether the Air Quality in your environment is acceptable or too poor (ie. safe or not safe). **In this latter case you should take steps to remove yourself to cleaner air environment or to use breathing apparatus.** As the unit measures real time levels, it can also be used to determine when this apparatus is NO LONGER required.

How does it work?

The Air Quality measurement is made by the built-in sensor and processed by the battery powered internal electronics control unit.

When CO₂ levels are above the pre-programmed thresholds averaged over the 60 second sampling period, the **ALERT** lamp changes from **GREEN** to **AMBER** or **RED**.

Each transition of the **ALERT** lamp to **AMBER** or **RED** also triggers the vibrate alert for approximately 15 seconds. This can be suspended by a short press of the Power button.

ALERT Lamp colour alerts are automatically suspended should the Air Quality level improve and the CO₂ concentration value fall below the **AMBER** level.

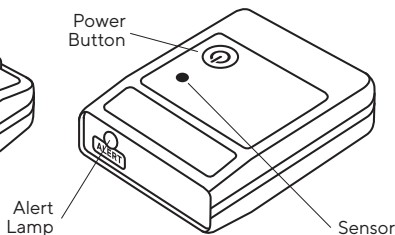
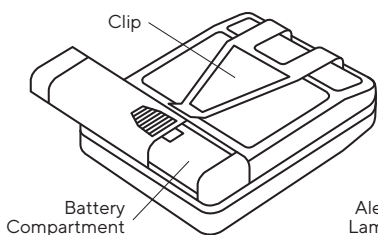


Battery life is in excess of 150h and a Low battery indication is shown by very short **RED** flashes of the **ALERT** lamp.

How do I use it?

Using the device is simplicity itself. Carefully insert your battery into the battery compartment (located at the rear of the unit) taking note of the polarity markings. A quality AA (LR6) alkaline type battery is recommended.

Press the Power button on the front face and wait for **ALERT** lamp to illuminate and flash **GREEN**.

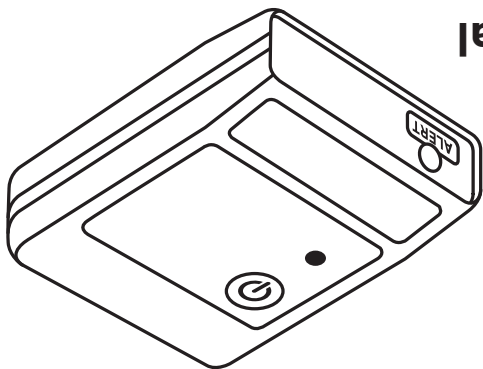


Clip the device onto your clothing and keep it exposed to your environment. Do **NOT** place in your pocket as this will adversely affect the readings and block the line of sight of the **ALERT** warning lamp.

The device constantly checks the Air Quality levels and respond accordingly to the measured CO₂ levels (see section "How does it work?").

IF ANY OF 2 (AMBER OR RED) WARNING STATES PERSIST, IT IS IMPERATIVE YOU OBTAIN AND USE SUITABLE BREATHING PROTECTION. ALTERNATIVELY REMOVE YOURSELF TO A CLEANER AIR ENVIRONMENT

After use, press and hold the power button until the **ALERT** lamp goes out.



Personal Air Quality Alert - CO₂ (Indoor)



Technical Specification

Measuring range:	400 to 5000 ppm	
Accuracy:	±50 AQI	
Sample rate:	30s (first result after 5 seconds)	
CO ₂ threshold levels:	ALERT Lamp Colour	CO₂ Level ppm
	GREEN	Less than 1000
	AMBER	Greater than 1000
	RED	Greater than 5000
Calibration:	Automatic in fresh air once per week	
Warning lamp:	Multi coloured LED, Red, Green, Amber	
Warning lamp indicator states:	Lamp Colour	Flash Duration
Low battery	RED	SHORT
Normal (no alert)	GREEN	SHORT
Amber alert	AMBER	LONG
Red alert	RED	LONG
Vibration alert:	Rotating type	
Vibrate time:	15 sec	
Battery:	1x AA LR6 alkaline	
Battery life:	> 150h	
Dimensions:	71mm x 56mm x 18mm (23mm including clip)	
Weight:	70g (with a battery)	
Life time:	5 years	
Environmental:		
Temperature operation:	-10°C to +60 °C	
Temperature storage:	-10°C to +70 °C (no battery)	
Humidity operating:	up to 95% RH, non-condensing	
Humidity storage:	up to 95% RH, non-condensing	

IMPORTANT NOTICE

These devices are sold with the intention that a wearer can educate themselves about their environment. They are not intended to make measurements as such but merely indicate the risk to themselves of being in that environment.

PAMBRY DISCLAIMER

Pambry Electronics reserve the right to change specifications or update this user manual at any time without prior notice.

SAFETY INFORMATION

For safe practice only operate in accordance with the instructions in this manual.

WARNING

To avoid personal injury, follow the guidelines below:

- Do not remove cover.
- Use this device only as specified in this manual.
- Do not use around explosive gas or vapour.
- It is your responsibility to contribute to a clean and healthy environment by using the appropriate local return and collection systems.
- The symbol shown below indicates that separate collection systems must be used for any discarded equipment or batteries marked with the WEEE Symbol.

